



LPP Combustion, LLC

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For Immediate Release

Liquid Fuel Technology Converts Naphtha Into Clean Gas

LPP Combustion, LLC, a Columbia, Maryland based innovator in liquid fuel technology, has successfully demonstrated their technology on a Capstone C30 Gas Turbine, burning Naphtha as a substitute natural gas. LPP Combustion has developed a Lean, Premixed, Pre-vaporized (LPP) combustion technology that converts liquid fuels, such as distillate fuel #2, diesel, naphtha, biodiesel and ethanol into a synthetic natural gas called LPP Gas™. The Capstone C30, a 30 kW gas turbine designed for operation on natural gas, is now running entirely on LPP Gas™, allowing it to now burn a liquid fuel with natural gas level performance and emissions.

LPP combustion received the C30 in February, 2010 on loan from Harbec Plastics, a Ontario, New York based plastic manufacturer. Upon receiving the turbine, LPP Combustion characterized the emissions of the C30 using natural gas to provide a baseline for comparison to the emissions when using LPP Gas™. The LPP Fuel System, which is skid-based hardware, was incorporated into the fuel feed system of the C30. No alterations have been made to the C30 combustion system. Operations have been demonstrated on Natural Gas/LPP blends and on pure LPP Gas™. Emissions levels have proved to be sub-10 ppm for NO_x with sub-30 CO levels with no combustion generated particulates. These emission levels are the same as found when running natural gas.

Having successfully burnt Naphtha with no flashback or combustion issues, LPP Combustion next intends to demonstrate gas turbine operation on renewable fuels such as Ethanol and Biodiesel. These fuels have been successfully tested on commercial gas turbine combustion hardware in the LPP laboratory, and should make a seamless transition to the C30. LPP Combustion is in the final stages of securing a net metering agreement to put renewable power to the electric grid with the local utility, Baltimore Gas and Electric (BGE).

LPP Gas™ offers the cleanest use of renewable fuels, using the existing gas turbine infrastructure, while providing “Dispatchable” renewable energy and meeting RPS mandates. The LPP System also allows for fuel flexibility, improved heat rate, reduced maintenance and allows the turbine to meet Natural Gas curtailments without an increase in conventional emissions. The LPP System can be integrated into new combustion systems or deployed as a self-contained hardware skid that can be easily retrofitted into existing natural gas-fired equipment without modification of the combustion hardware. This ease of installation makes LPP Systems and liquid fuels an exciting option for industrial and utility scale combustion markets. Learn more at www.lppcombustion.com.

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